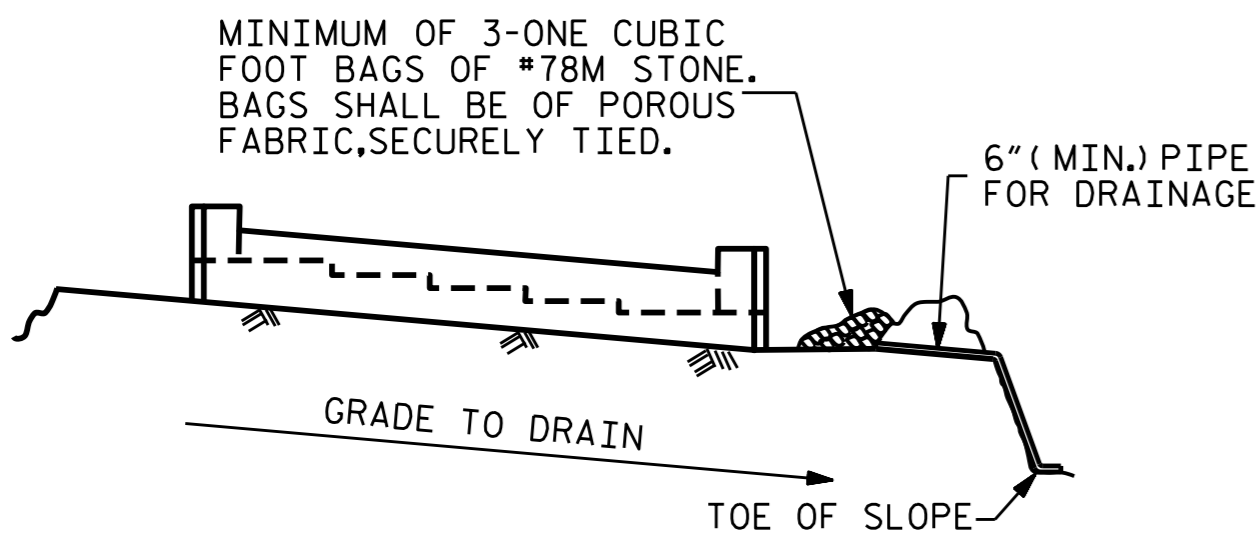


SECTION A-A

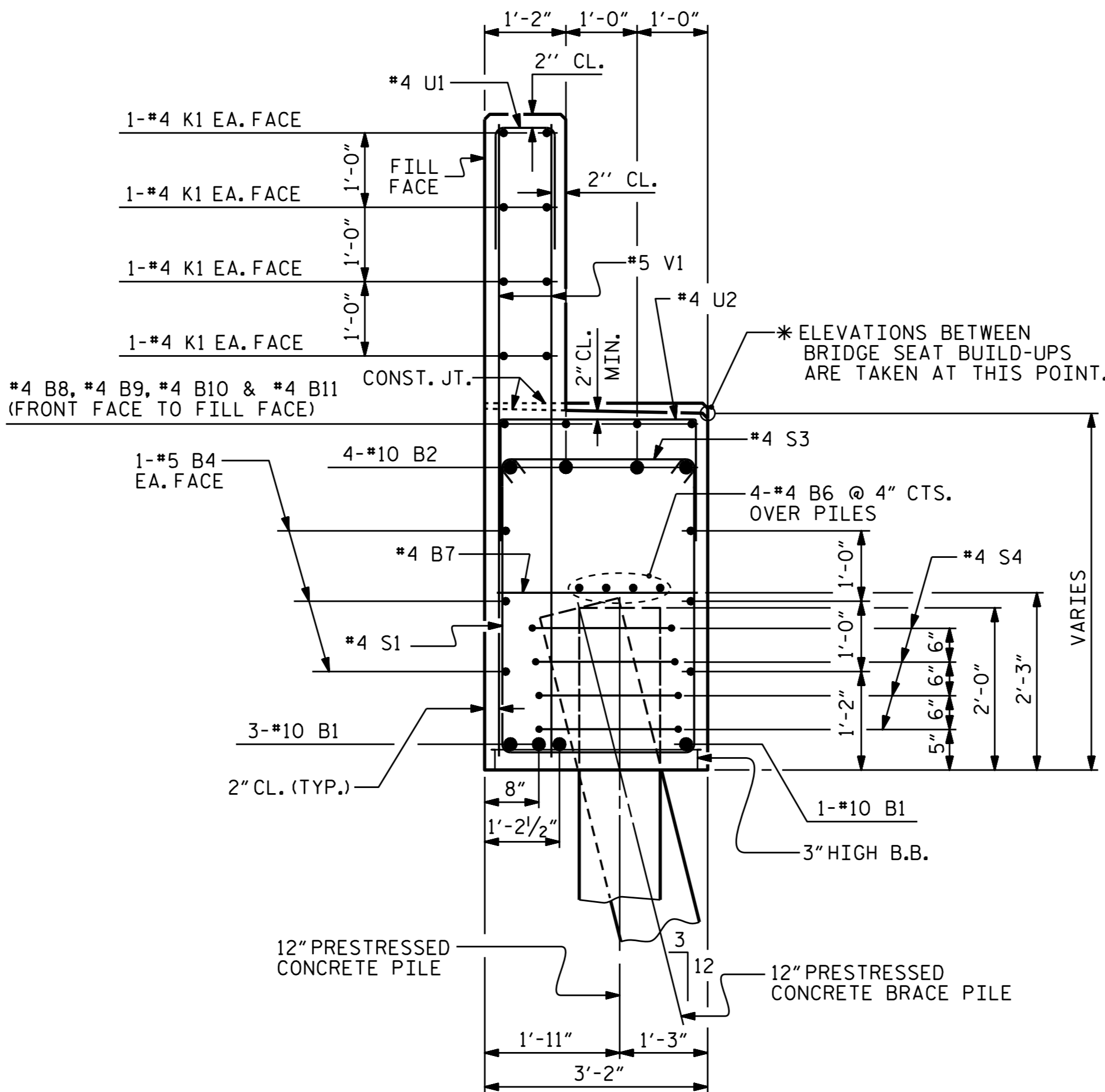


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

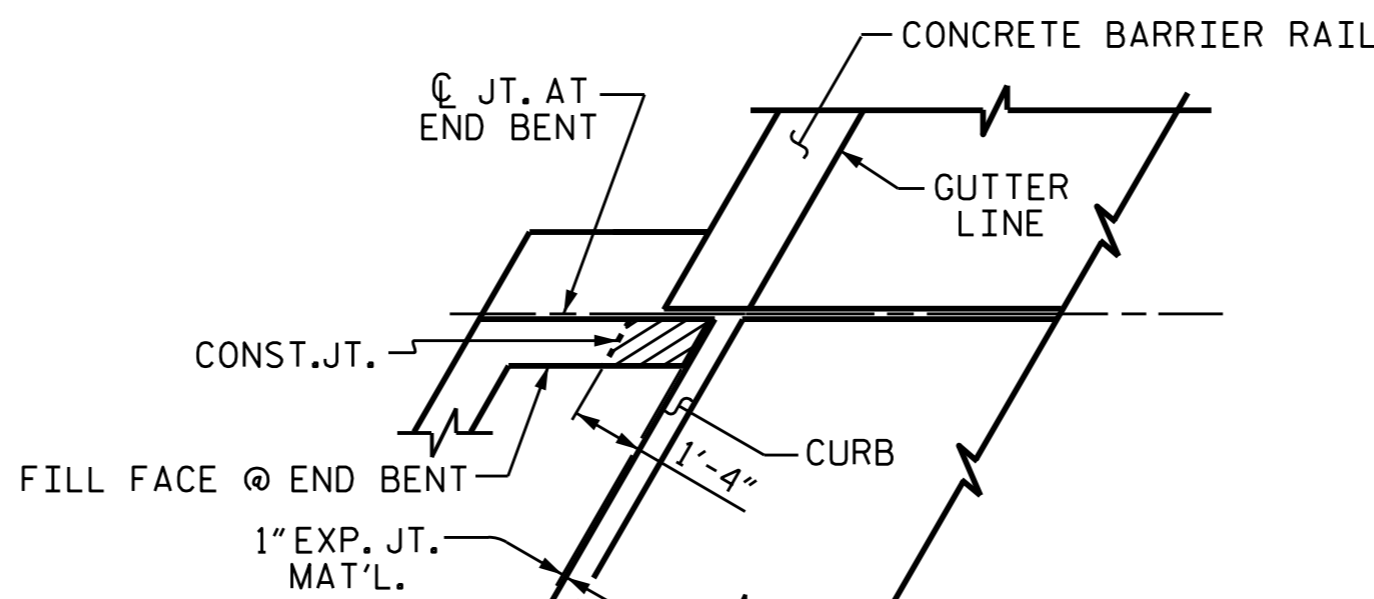
BAGGED STONE SHALL REMAIN IN PLACE UNTIL THE ENGINEER DIRECTS THAT IT BE REMOVED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF SILT ACCUMULATIONS AT BAGGED STONE WHEN SO DIRECTED BY THE ENGINEER. BAGS SHALL BE REMOVED AND REPLACED WHENEVER THE ENGINEER DETERMINES THAT THEY HAVE DETERIORATED AND LOST THEIR EFFECTIVENESS.

NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK AND THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE BID FOR THE SEVERAL PAY ITEMS.

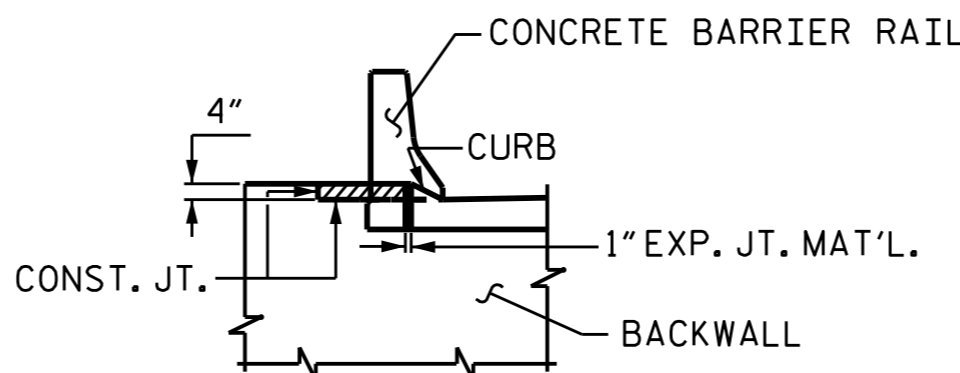
## TEMPORARY DRAINAGE AT END BENT



SECTION B-B



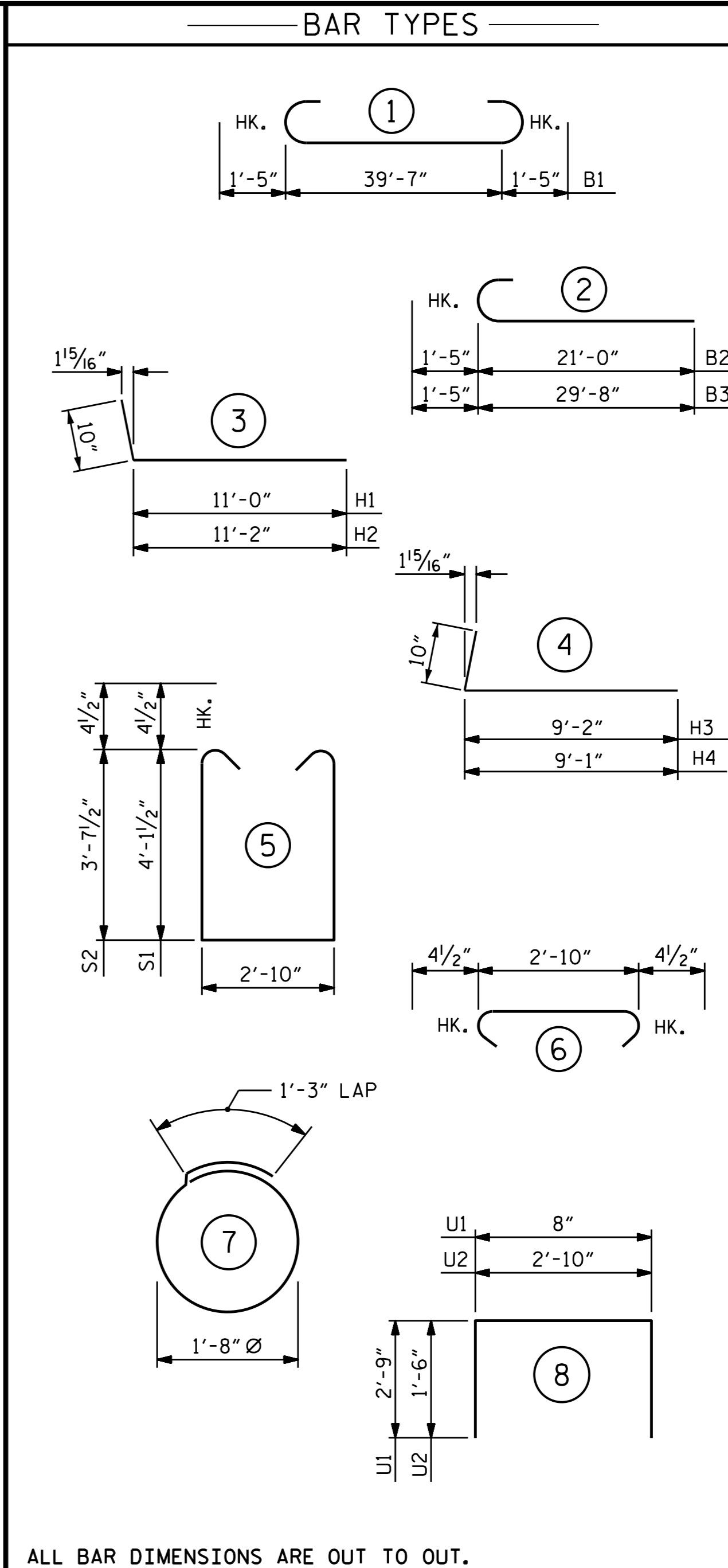
PLAN



ELEVATION

## BLOCKOUT IN WING WALL

NOTE: THE CONCRETE IN THE SHADED AREA OF THE WING SHALL BE POURED AFTER THE JOINT BETWEEN THE DECK AND THE APPROACH SLAB HAS BEEN SAWED AND THE BARRIER RAIL IS CAST IF SLIP FORMING IS USED.



ALL BAR DIMENSIONS ARE OUT TO OUT.

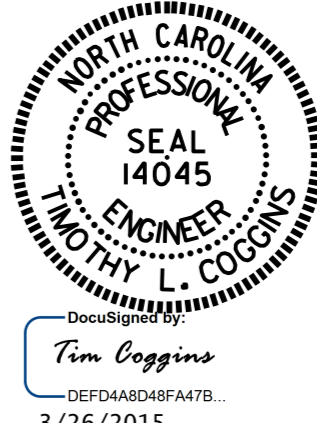
▲ THE CONCRETE DISPLACED BY THE 12" PRESTRESSED CONCRETE PILES HAS BEEN DEDUCTED FROM THE QUANTITY OF CLASS 'A' CONCRETE FOR THE END BENT CAP.

BILL OF MATERIAL					
END BENT #1					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	4	#10	1	42'-5"	730
B2	4	#10	2	22'-5"	386
B3	4	#10	2	31'-1"	535
B4	6	#5	STR	39'-9"	249
B5	2	#5	STR	13'-0"	27
B6	8	#4	STR	21'-1"	113
B7	13	#4	STR	2'-10"	25
B8	3	#4	STR	7'-1"	14
B9	3	#4	STR	7'-3"	15
B10	3	#4	STR	7'-5"	15
B11	3	#4	STR	7'-7"	15
H1	20	#5	3	11'-10"	247
H2	20	#5	3	12'-0"	250
H3	18	#5	4	10'-0"	188
H4	18	#5	4	9'-11"	186
K1	16	#4	STR	21'-1"	225
K2	8	#5	STR	3'-7"	30
S1	22	#4	5	11'-10"	174
S2	20	#4	5	10'-10"	145
S3	42	#4	6	3'-7"	101
S4	20	#4	7	6'-6"	87
U1	32	#4	8	6'-2"	132
U2	15	#4	8	5'-10"	58
V1	64	#5	STR	7'-4"	490
V2	32	#5	STR	10'-2"	339
V3	28	#5	STR	9'-0"	263
REINFORCING STEEL					
LBS. 5039					
▲ CLASS "A" CONCRETE BREAKDOWN					
POUR #1					
CAP & LOWER PART OF WINGS 24.3 C.Y.					
POUR #2					
BACKWALL & UPPER PART OF WINGS 10.0 C.Y.					
CLASS "A" CONCRETE TOTAL 34.3 C.Y.					
12" PRESTRESSED CONCRETE PILES					
NO. 5 LIN. FT. 250					
PILE REDRIVES 3 EA.					

PROJECT NO. R-2514B  
ONSLOW & JONES COUNTY  
STATION: 116+07.49 -L-

SHEET 3 OF 3

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
SUBSTRUCTURE END BENT No. 1					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
SHEET NO. S1-022					TOTAL SHEETS 31



DRAWN BY :	K.P. SEDA I, P.E.	DATE :	6/16/14
CHECKED BY :	M.D. PISO	DATE :	8/11/14
DESIGN ENGINEER OF RECORD:	E.K. POPE	DATE :	1/21/15